

VGN-FS70B/FS50B/FS30B/FS20/FS90PS/FS90S  
VGN-FS570/FS550/FS550P/FS540P/FS530B/FS520B/FS500/FS500P/FS500B/FS550F  
VGN-FS195XP/FS115Z/FS115S/FS115M/FS115E/FS195VP/FS115B/ FS115ZR/FS115MR  
VGN-FS15C/FS18CP/FS18GP/FS18SP/FS18LP/FS18TP/ FS15GP/ FS15SP/ FS15LP/ FS15TP

# SERVICE MANUAL

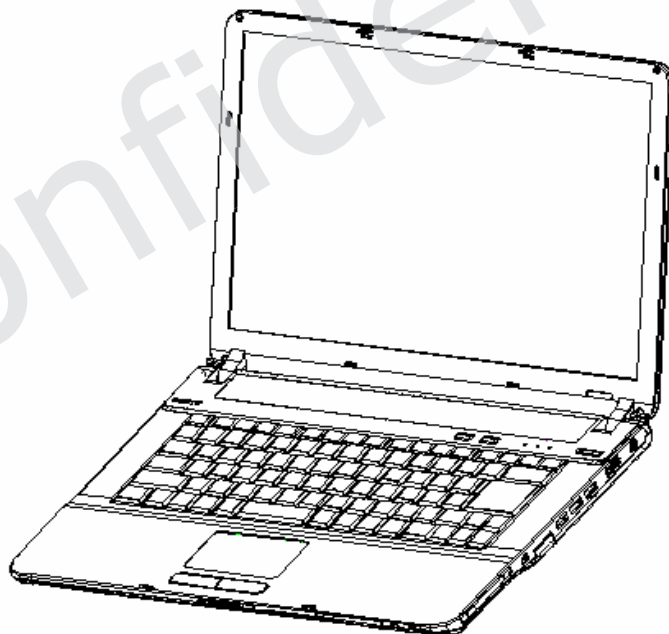
<b>J</b>	VGN-FS70B
	VGN-FS50B
	VGN-FS30B
	VGN-FS20
	VGN-FS90PS *
	VGN-FS90S *
<b>AM</b>	VGN-FS570
	VGN-FS550
	VGN-FS550P
	VGN-FS540P
	VGN-FS530B
	VGN-FS520B
	VGN-FS500 *
	VGN-FS500P *
	VGN-FS500B *
	VGN-FS550F
<b>EU</b>	VGN-FS195XP
	VGN-FS115Z
	VGN-FS115S
	VGN-FS115M
	VGN-FS115E

<b>EU</b>	VGN-FS195VP
	VGN-FS115B
	VGN-FS115ZR
	VGN-FS115MR
<b>AO</b>	VGN-FS18CP
	VGN-FS15C
	VGN-FS18GP
	VGN-FS18SP
	VGN-FS18LP
	VGN-FS18TP
	VGN-FS15GP
	VGN-FS15SP
	VGN-FS15LP
	VGN-FS15TP

\*: CTO Model

## Revision History

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PERSONAL COMPUTER

**SONY**

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### **Caution Markings for Lithium/Ion Battery-**

The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the Manufacturer's

**CAUTION:** The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep Away from children..

**CAUTION:** Changing the back up battery.

- Overcharging, short circuiting, reverse charging, mutilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.

- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection..

## **Service and Inspection Precautions**

### **\*1. Obey precautionary markings and instructions**

- \* Labels and stamps on the cabinet, chassis, and components are as requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents..

### **\*2. Use designated parts only**

- \* The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions be extra sure to use only the designated components.

### **\*3. Always follow the original design when mounting parts and routing wires**

- \* The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it

away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

### **4. Inspect after completing service**

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

### **5. When replacing chip components..**

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.,

### **6. When handling flexible print boards..**

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

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History of the changes is shown as the  
"Revision History" at the end of this data.

# CHAPTER1. SPECIFICATIONS

## 1-1. Specifications

	J				
	VGN-FS70B	VGN-FS50B	VGN-FS30B	VGN-FS20	VGN-FS90PS*/FS90S*
CPU	Pentium-M 740(Do1.73)	Pentium-M 730(Do1.6)	Celeron-M 360(Do1.6)	Celeron-M 360(Do1.6)	*1)
Graphic	NV44M	915GM	915GM	915GM	*2)
LCD	15.4"WSXGA+ (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	*3)
HDD	80GB	80GB	80GB	80GB	*4)
MEMORY(Slot1)	256MB DDR333	256MB DDR333	256MB DDR333	256MB DDR333	*5)
MEMORY(Slot2)	256MB DDR333	256MB DDR333	-	-	
QUANTITY[STANDARD/MAX]	512MB/2GB	512MB/2GB	256MB/2GB	256MB/2GB	
OPT-DRIVE	Super Multi Drive DL	Super Multi Drive DL	Super Multi Drive DL	Super Multi Drive DL	Super Multi Drive DL Combo
AC adaptor	AC19V11	AC19V11	AC19V11	AC19V11	AC19V10
Battery	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA
Wireless LAN	O	O	O	O	O
W-Mouse	X	X	X	X	O/X
Memory Card Adapter	O	O	O	O	O/X
USB FLOPPY DISK DRIVE	X	O	O	O	X
OS	XP Home	XP Home	XP Home	XP Home	XP Home/XP Pro

\*1)Celeron-M 360,Pentium-M 730,Pentium-M 740,Pentium-M 770 \*2)NV44M,915GM \*3)15.4"WSAGA+(CB),15.4"WXGA(HC) \*4)100GB,80GB,60GB,40GB \*5)512MB\*2,512MB\*1,256MB\*1

\*6)Celeron-M 360,Pentium-M 730,Pentium-M 740,Pentium-M 750,Pentium-M 760,Pentium-M 770 \*7)NV44M,915GM \*8)100GB,80GB,60GB,40GB,30GB

\*9)512MB\*1,512MB\*2,256MB\*1,256MB\*2 \*10)Combo,DVD+/-RW DL,DVD-ROM \*11)None, 802.11b/g, 802.11a/b/g

	AM							
	VGN-FS570	VGN-FS550	VGN-FS550P	FS540P	VGN-FS530B	VGN-FS520B	VGN-FS500*/FS500P*/FS500B*	VGN-FS550F
CPU	Pentium-M 740(Do1.73)	Pentium-M 730(Do1.6)	Pentium-M 730(Do1.6)	Pentium-M 730(Do1.6)	Pentium-M 730(Do1.6)	Pentium-M 730(Do1.6)	*6)	Pentium-M 730(Do1.6)
Graphic	915GM	915GM	915GM	915GM	915GM	915GM	*7)	915GM
LCD	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (High Brightness)	15.4"WXGA (High Brightness)	15.4"WXGA (High Brightness)	15.4"WXGA (Clear Black)	15.4"WXGA (High Brightness)
HDD	100GB	80GB	80GB	80GB	60GB	40GB	*8)	60GB
MEMORY(Slot1)	512MB DDR333	256MB DDR333	256MB DDR333	512MB DDR333	512MB DDR333	256MB DDR333	*9)	256MB DDR333
MEMORY(Slot2)	512MB DDR333	256MB DDR333	256MB DDR333	-	-	-		256MB DDR333
QUANTITY[STANDARD/MAX]	1GBB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	256MB/2GB		512MB/2GB
OPT-DRIVE	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	Combo	Combo	*10)	DVD+/-RW DL
AC adaptor	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11
Battery	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA
Wireless LAN	O	O	O	O	O	O	*11)	O
W-Mouse	X	X	X	X	X	X	X	X
Memory Card Adapter	X	X	X	X	X	X	X	X
USB FLOPPY DISK DRIVE	X	X	X	X	X	X	X	X
OS	XP Home	XP Home	XP Pro	XP Pro	XP Pro SMB	XP Pro SMB	XP Pro/XP Pro SMB /XP Home	XP Home

- The model that is accompanied by asterisk(\*) is the CTO model.
- For the equipment configuration, refer to the CTO Information.
- The trademarks or registered trademarks of above, refer to page2.

	EU								
	VGN-FS195XP	VGN-FS115Z	VGN-FS115S	VGN-FS115M	VGN-FS115E	VGN-FS195VP	VGN-FS115B	VGN-FS115ZR	VGN-FS115MR
CPU	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Pentium-M 740(Do1.73)	Pentium-M 730(Do1.6)	Celeron-M 360(Do1.6)	Pentium-M 730(Do1.6)	Pentium-M 730(Do1.6)	Pentium-M 740(Do1.73)	Pentium-M 730(Do1.6)
Graphic	NV44M	NV44M	NV44M	NV44M	915GN	NV44M	915GM	NV44M	NV44M
LCD	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)	15.4"WXGA (Clear Black)
HDD	100GB	100GB	80GB	80GB	60GB	80GB	60GB	100GB	80GB
MEMORY(Slot1)	512MB DDR333	256MB DDR333	256MB DDR333	256MB DDR333	256MB DDR333	512MB DDR333	256MB DDR333	256MB DDR333	512MB DDR333
MEMORY(Slot2)	-	256MB DDR333	256MB DDR333	256MB DDR333	256MB DDR333	-	256MB DDR333	256MB DDR333	-
QUANTITY[STANDARD/MAX]	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB	512MB/2GB
OPT-DRIVE	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL	DVD+/-RW DL
AC adaptor	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11	AC19V11
Battery	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	BP2SA	O	O	BP2SA
Wireless LAN	O	O	O	O	O	O	X	X	O
W-Mouse	X	X	X	X	X	X	X	X	X
Memory Card Adapter	X	X	X	X	X	X	X	X	X
USB FLOPPY DISK DRIVE	X	X	X	X	X	X	X	X	X
OS	XP Pro	XP Home	XP Home	XP Home	XP Home	XP Pro	XP Home	XP Home	XP Home

	AO									
	VGN-FS18CP	VGN-FS15C	VGN-FS18GP	VGN-FS18SP	VGN-FS18LP	VGN-FS18TP	VGN-FS15GP	VGN-FS15SP	VGN-FS15LP	VGN-FS15TP
CPU	Pentium-M 750(Do1.86)	Pentium-M 730(Do1.6)	Pentium-M 740(Do1.73)	<-	<-	<-	Pentium-M 730(Do1.6)	<-	<-	<-
Graphic	NV44M	915GM	NV44M	<-	<-	<-	NV44M	<-	<-	<-
LCD	15.4"WXGA (Clear Black)	15.4"WXGA (High Brightness)	15.4"WXGA (Clear Black)	<-	<-	<-	15.4"WXGA (High Brightness)	<-	<-	<-
HDD	60GB	40GB	80GB	<-	<-	<-	40GB	<-	<-	<-
MEMORY(Slot1)	512MB DDR333	512MB DDR333	512MB DDR333	<-	<-	<-	512MB DDR333	<-	<-	<-
MEMORY(Slot2)	-	-	-	<-	<-	<-	-	<-	<-	<-
QUANTITY[STANDARD/MAX]	512MB/2GB	512MB/2GB	512MB/2GB	<-	<-	<-	512MB/2GB	<-	<-	<-
OPT-DRIVE	Combo	Combo	DVD+/-RW DL	<-	<-	<-	Combo	<-	<-	<-
AC adaptor	AC19V10	AC19V10	AC19V10	<-	<-	<-	AC19V10	<-	<-	<-
Battery	BP2SA	BP2SA	BP2SA	<-	<-	<-	BP2SA	<-	<-	<-
Wireless LAN	O	O	O	<-	<-	<-	O	<-	<-	<-
W-Mouse	X	X	X	<-	<-	<-	X	<-	<-	<-
Memory Card Adapter	X	X	X	<-	<-	<-	X	<-	<-	<-
USB FLOPPY DISK DRIVE	X	X	X	<-	<-	<-	X	<-	<-	<-
OS	XP Pro	XP Home	XP Pro	<-	<-	<-	XP Pro	<-	<-	<-

The model that is accompanied by asterisk(\*) is the CTO model.  
For the equipment configuration, refer to the CTO Information.

1-2. CTO Information

Model name:VGN-FS90PS  
Model number:PCG-791N  
OS:WinXP Pro

CPU	Pentium-M 770 A-1094-802-A CPU PM 2.13	Pentium-M 740 A-1094-805-A CPU PM 1.73	Pentium-M 730 A-1094-806-A CPU PM 1.6	Celeron-M 360 A-1094-808-A CPU CEL-M 1.4
HDD	100GB A-1108-902-A ASSY HDD 100GB(TO)	80GB A-1108-903-A ASSY HDD 80GB(HI)	60GB A-1108-906-A ASSY HDD 60GB(HI)	40GB A-1108-909-A ASSY HDD 40GB(TO)
LCD	15.4/WSXGA+/ClearBlack A-1108-881-A ASSY LCD (HC-SXGA+-WLAN)(S)	15.4/WXGA/ClearBlack A-1108-881-A ASSY LCD (HC-XGA-WLAN)(S)		
Graphics	NV44M	915GM		
Memory	256MB*1 6-707-029-01 IC HYS64D32020HDL-6-C	512MB*1 6-705-096-01 IC HYS64D64020HBDL-6-C	512MB*2 6-705-096-01*2 IC HYS64D64020HBDL-6-C*2	
Opt.Drive	Combo A-1108-897-A ASSY ODD QSI(SBW 242C)	Super Multi DL A-1108-893-A ASSY ODD PANA(SM+DL)	Super Multi SL A-1108-895-A ASSY ODD PANA(SM+SL)	
W-LAN	802.11b/g(Intel) 1-761-864-25 WIRELESS LAN CARD			
Office	2003 Professional	2003 Personal	None	
Other Option	Memory card adapter 1-478-615-11 MEMORY CARD ADAPTER	None		
Other Option	WIRELESS MOUSE 1-796-824-41 MOUSE (PWH)	None		

Model name:VGN-FS90S  
Model number:PCG-791N  
OS:WinXP Home

CPU	Pentium-M 770 A-1094-802-A CPU PM 2.13	Pentium-M 740 A-1094-805-A CPU PM 1.73	Pentium-M 730 A-1094-806-A CPU PM 1.6	Celeron-M 360 A-1094-808-A CPU CEL-M 1.4
HDD	100GB A-1108-902-A ASSY HDD 100GB(TO)	80GB A-1108-903-A ASSY HDD 80GB(HI)	60GB A-1108-906-A ASSY HDD 60GB(HI)	40GB A-1108-909-A ASSY HDD 40GB(TO)
LCD	15.4/WSXGA+/ClearBlack A-1108-881-A ASSY LCD (HC-SXGA+-WLAN)(S)	15.4/WXGA/ClearBlack A-1108-881-A ASSY LCD (HC-XGA-WLAN)(S)		
Graphics	NV44M	915GM		
Memory	256MB*1 6-707-029-01 IC HYS64D32020HDL-6-C	512MB*1 6-705-096-01 IC HYS64D64020HBDL-6-C	512MB*2 6-705-096-01*2 IC HYS64D64020HBDL-6-C*2	
Opt.Drive	Combo A-1108-897-A ASSY ODD QSI(SBW 242C)	Super Multi DL A-1108-893-A ASSY ODD PANA(SM+DL)	Super Multi SL A-1108-895-A ASSY ODD PANA(SM+SL)	
W-LAN	802.11b/g(Intel) 1-761-864-25 WIRELESS LAN CARD			
Office	2003 Professional	2003 Personal	None	
Other Option	Memory card adapter 1-478-615-11 MEMORY CARD ADAPTER	None		
Other Option	WIRELESS MOUSE 1-796-824-41 MOUSE (PWH)	None		

Model name:VGN-FS500P  
Model number:PCG-792L  
OS:WinXP Pro

CPU	Pentium-M 770 A-1094-802-A CPU PM 2.13	Pentium-M 760 A-1094-803-A CPU PM2.0	Pentium-M 750 A-1094-804-A CPU PM 1.86	Pentium-M 740 A-1094-805-A CPU PM 1.73	Pentium-M 730 A-1094-806-A CPU PM 1.6	Celeron-M 360 A-1094-808-A CPU CEL-M 1.4
HDD	100GB A-1108-902-A ASSY HDD 100GB(TO)	80GB A-1108-903-A ASSY HDD 80GB(HI)	60GB A-1108-906-A ASSY HDD 60GB(HI)	40GB A-1108-910-A ASSY HDD 40GB(HI)	30GB A-1108-911-A ASSY HDD 30GB(HI)	
LCD	15.4/WXGA/ClearBlack A-1108-883-A ASSY LCD (HC-XGA-WLAN)(S)					
Graphics	NV44M	915GM				
Memory	256MB*1 6-707-029-01 IC HYS64D32020HDL-6-C	256MB*2 6-707-029-01*2 IC HYS64D32020HDL-6-C	512MB*1 6-705-096-01 IC HYS64D64020HBDL-6-C	512MB*2 6-705-096-01*2 IC HYS64D64020HBDL-6-C*2		
Opt.Drive	Combo A-1108-897-A ASSY ODD QSI(SBW 242C)	DVD+RW A-1108-896-A ASSY ODD PANA(DVD+DL)	DVD-ROM A-1108-898-A ASSY ODD QSI(SDR-088)			
W-LAN	802.11b/g(Intel) 1-761-864-15 WIRELESS LAN CARD	802.11a/b/g 1-789-095-11 WIRELESS LAN CARD	None			

Model name:VGN-FS500  
Model number:PCG-792L  
OS:WinXP Home

CPU	Pentium-M 770 A-1094-802-A CPU PM 2.13	Pentium-M 760 A-1094-803-A CPU PM2.0	Pentium-M 750 A-1094-804-A CPU PM 1.86	Pentium-M 740 A-1094-805-A CPU PM 1.73	Pentium-M 730 A-1094-806-A CPU PM 1.6	Celeron-M 360 A-1094-808-A CPU CEL-M 1.4
HDD	100GB A-1108-902-A ASSY HDD 100GB(TO)	80GB A-1108-903-A ASSY HDD 80GB(HI)	60GB A-1108-906-A ASSY HDD 60GB(HI)	40GB A-1108-910-A ASSY HDD 40GB(HI)	30GB A-1108-911-A ASSY HDD 30GB(HI)	
LCD	15.4/WXGA/ClearBlack A-1108-883-A ASSY LCD (HC-XGA-WLAN)(S)					
Graphics	NV44M	915GM				
Memory	256MB*1 6-707-029-01 IC HYS64D32020HDL-6-C	256MB*2 6-707-029-01*2 IC HYS64D32020HDL-6-C	512MB*1 6-705-096-01 IC HYS64D64020HBDL-6-C	512MB*2 6-705-096-01*2 IC HYS64D64020HBDL-6-C*2		
Opt.Drive	Combo A-1108-897-A ASSY ODD QSI(SBW 242C)	DVD+RW A-1108-896-A ASSY ODD PANA(DVD+DL)	DVD-ROM A-1108-898-A ASSY ODD QSI(SDR-088)			
W-LAN	802.11b/g(Intel) 1-761-864-15 WIRELESS LAN CARD	802.11a/b/g 1-789-095-11 WIRELESS LAN CARD	None			

Model name:VGN-FS500B  
Model number:PCG-792L  
OS:WinXP Pro

CPU	Pentium-M 770 A-1094-802-A CPU PM 2.13	Pentium-M 760 A-1094-803-A CPU PM2.0	Pentium-M 750 A-1094-804-A CPU PM 1.86	Pentium-M 740 A-1094-805-A CPU PM 1.73	Pentium-M 730 A-1094-806-A CPU PM 1.6	Celeron-M 360 A-1094-808-A CPU CEL-M 1.4
HDD	100GB A-1108-902-A ASSY HDD 100GB(TO)	80GB A-1108-903-A ASSY HDD 80GB(HI)	60GB A-1108-906-A ASSY HDD 60GB(HI)	40GB A-1108-910-A ASSY HDD 40GB(HI)	30GB A-1108-911-A ASSY HDD 30GB(HI)	
LCD	15.4/WXGA/ClearBlack A-1108-883-A ASSY LCD (HC-XGA-WLAN)(S)					
Graphics	NV44M	915GM				
Memory	256MB*1 6-707-029-01 IC HYS64D32020HDL-6-C	256MB*2 6-707-029-01*2 IC HYS64D32020HDL-6-C	512MB*1 6-705-096-01 IC HYS64D64020HBDL-6-C	512MB*2 6-705-096-01*2 IC HYS64D64020HBDL-6-C*2		
Opt.Drive	Combo A-1108-897-A ASSY ODD QSI(SBW 242C)	DVD+RW A-1108-896-A ASSY ODD PANA(DVD+DL)	DVD-ROM A-1108-898-A ASSY ODD QSI(SDR-088)			
W-LAN	802.11b/g(Intel) 1-761-864-15 WIRELESS LAN CARD	802.11a/b/g 1-789-095-11 WIRELESS LAN CARD	None			

1-3. BTO Information

VGN-FS500 Series BTO Component List  
Ver.1.0

NOTE: The parts marked "○" are commonly used in all models.  
For the component parts not shown here, please refer to the VGN-FS500\* Service Manual.

Configuration Parts			Product Code		28-3986-19	28-3986-20	28-3986-21	28-3986-22	28-3986-23	28-3986-24	28-3986-25	28-3986-26	28-3986-27	28-3986-28	28-3986-29
			Model Name		FS5001	FS500B01	FS500B02	FS500P01	FS500B03	FS500P02	FS500B04	FS500P03	FS500B05	FS500B06	FS500P04
			Part No.	Description											
CPU	PM/Do/730/1.60GHz	A-1094-806-A	CPU PM1.60	○	○	○	○	○	○	○	○	○	○	○	○
	PM/Do/740/1.73GHz	A-1094-805-A	CPU PM1.73	○	○	○	○	○	○	○	○	○	○	○	○
	PM/Do/750/1.86GHz	A-1094-804-A	CPU PM1.86	○	○	○	○	○	○	○	○	○	○	○	○
	PM/Do/760/2GHz	A-1094-803-A	CPU PM2.0	○	○	○	○	○	○	○	○	○	○	○	○
	PM/Do/770/2.13GHz	A-1094-802-A	CPU PM2.13	○	○	○	○	○	○	○	○	○	○	○	○
HDD	40GB/2.5/4200	A-1108-910-A	ASSY HDD 40GB(HI)	○	○	○	○	○	○	○	○	○	○	○	○
	60GB/2.5/4200	A-1108-906-A	ASSY HDD 60GB(HI)	○	○	○	○	○	○	○	○	○	○	○	○
	80GB/2.5/4200	A-1108-903-A	ASSY HDD 80GB(HI)	○	○	○	○	○	○	○	○	○	○	○	○
	100GB/2.5/4200	A-1108-902-A	ASSY HDD 100GB(TO)	○	○	○	○	○	○	○	○	○	○	○	○
LCD	15.4/WXGA/HC	A-1108-883-A	ASSY LCD (HC-WXGA-WLAN)(S)	○	○	○	○	○	○	○	○	○	○	○	○
Memory	256MB(256MB/DDR/333/SO-DIMMx1)	6-707-029-01	RAM Infineon 256MB	○	○	○	○	○	○	○	○	○	○	○	○
	512MB(512MB/DDR/333/SO-DIMMx1)	6-705-096-01	RAM Infineon 512MB	○	○	○	○	○	○	○	○	○	○	○	○
	1024MB(512MB/DDR/333/SO-DIMMx2)	6-705-096-01	RAM Infineon 512MB	○	○	○	○	○	○	○	○	○	○	○	○
ODD	Combo/12.7/x24	A-1108-897-A	MS01 ASSY ODD QSI(SBW 242C)	○	○	○	○	○	○	○	○	○	○	○	○
	DVD+-RW/12.7/x8/+DL	A-1108-896-A	MS01 ASSY PANA(DVD+DL)	○	○	○	○	○	○	○	○	○	○	○	○
W-LAN	802.11b/g (Intel)	1-761-864-15	WIRELESS LAN CARD	○	○	○	○	○	○	○	○	○	○	○	○
	802.11a/b/g (Intel)	1-789-095-11	WIRELESS LAN CARD	○	○	○	○	○	○	○	○	○	○	○	○
Office	Bundle			○	○	○	○	○	○	○	○	○	○	○	○
OS	WinXP HE			○	○	○	○	○	○	○	○	○	○	○	○
	WinXP Pro			○	○	○	○	○	○	○	○	○	○	○	○
	WinXP Pro (SMB)			○	○	○	○	○	○	○	○	○	○	○	○

Configuration Parts			Product Code		28-3986-30	28-3986-31	28-3986-32	28-3986-33	28-3986-34	28-3986-35	28-3986-36	28-3986-37	28-3986-38	28-3986-40	28-3986-41
			Model Name		FS500P05	FS500B07	FS500P06	FS500P07	FS500P08	FS500B08	FS500P09	FS500P10	FS500P11	FS500BC	FS500PC
			Part No.	Description											
CPU	PM/Do/730/1.60GHz	A-1094-806-A	CPU PM1.60	○	○	○	○	○	○	○	○	○	○	○	○
	PM/Do/740/1.73GHz	A-1094-805-A	CPU PM1.73	○	○	○	○	○	○	○	○	○	○	○	○
	PM/Do/750/1.86GHz	A-1094-804-A	CPU PM1.86	○	○	○	○	○	○	○	○	○	○	○	○
	PM/Do/760/2GHz	A-1094-803-A	CPU PM2.0	○	○	○	○	○	○	○	○	○	○	○	○
	PM/Do/770/2.13GHz	A-1094-802-A	CPU PM2.13	○	○	○	○	○	○	○	○	○	○	○	○
HDD	40GB/2.5/4200	A-1108-910-A	ASSY HDD 40GB(HI)	○	○	○	○	○	○	○	○	○	○	○	○
	60GB/2.5/4200	A-1108-906-A	ASSY HDD 60GB(HI)	○	○	○	○	○	○	○	○	○	○	○	○
	80GB/2.5/4200	A-1108-903-A	ASSY HDD 80GB(HI)	○	○	○	○	○	○	○	○	○	○	○	○
	100GB/2.5/4200	A-1108-902-A	ASSY HDD 100GB(TO)	○	○	○	○	○	○	○	○	○	○	○	○
LCD	15.4/WXGA/HC	A-1108-883-A	ASSY LCD (HC-WXGA-WLAN)(S)	○	○	○	○	○	○	○	○	○	○	○	○
Memory	256MB(256MB/DDR/333/SO-DIMMx1)	6-707-029-01	RAM Infineon 256MB	○	○	○	○	○	○	○	○	○	○	○	○
	512MB(512MB/DDR/333/SO-DIMMx1)	6-705-096-01	RAM Infineon 512MB	○	○	○	○	○	○	○	○	○	○	○	○
	1024MB(512MB/DDR/333/SO-DIMMx2)	6-705-096-01	RAM Infineon 512MB	○	○	○	○	○	○	○	○	○	○	○	○
ODD	Combo/12.7/x24	A-1108-897-A	MS01 ASSY ODD QSI(SBW 242C)	○	○	○	○	○	○	○	○	○	○	○	○
	DVD+-RW/12.7/x8/+DL	A-1108-896-A	MS01 ASSY PANA(DVD+DL)	○	○	○	○	○	○	○	○	○	○	○	○
W-LAN	802.11b/g (Intel)	1-761-864-15	WIRELESS LAN CARD	○	○	○	○	○	○	○	○	○	○	○	○
	802.11a/b/g (Intel)	1-789-095-11	WIRELESS LAN CARD	○	○	○	○	○	○	○	○	○	○	○	○
Office	Bundle			○	○	○	○	○	○	○	○	○	○	○	○
OS	WinXP HE			○	○	○	○	○	○	○	○	○	○	○	○
	WinXP Pro			○	○	○	○	○	○	○	○	○	○	○	○
	WinXP Pro (SMB)			○	○	○	○	○	○	○	○	○	○	○	○

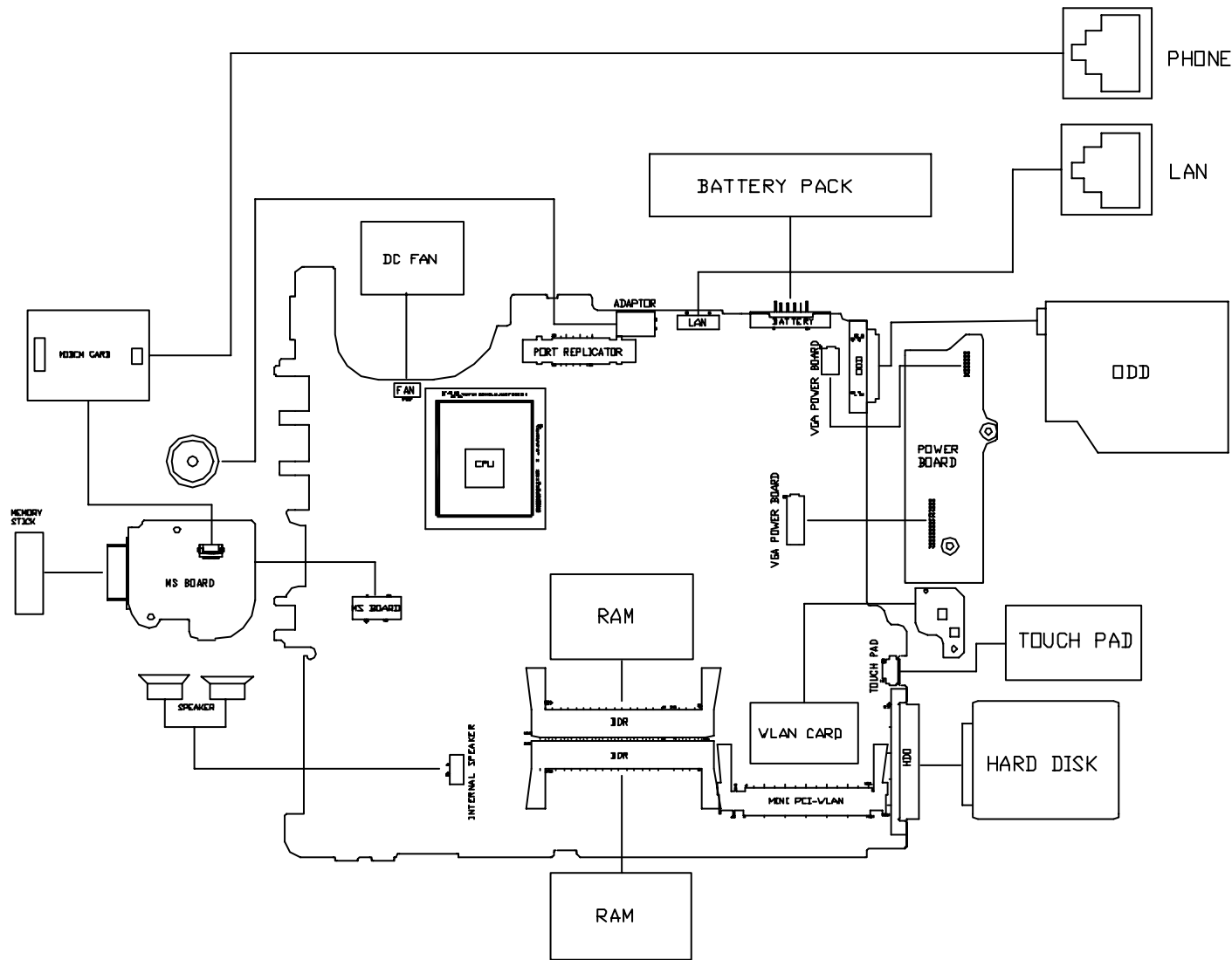




### 3-1 VGN-FS Series (TOP)



3-1 VGN-FS Series (BOTTOM)



# CHAPTER 4

## EXPLODED VIEWS AND PARTS LIST

· The parts id compiled by blocks of a Palmrest and bottom etc.  
The sections of the parts list are different depending on the model.  
Please refer to list of contents shown in the below.

### Section Page

#### Screws

S-1.Screws.....4-2

#### Palmerst

P-1.Palmrest.....4-3

#### Main Board

M-1.Main Board.....4-5

#### BOTTOM

B-1.BOTTOM.....4-7

#### CABINET KBCOVER

C-1.CABINET KBCOVER..... 4-9

#### LCD

L-1.LCD.....4-10

#### ODD

D-1.ODD .....4-13

#### HDD

H-1.HDD.....4-14

#### ACCESSORIES

A-1.ACCESSORIES.....4-15



#### SUBSTITUTION PARTS LIST

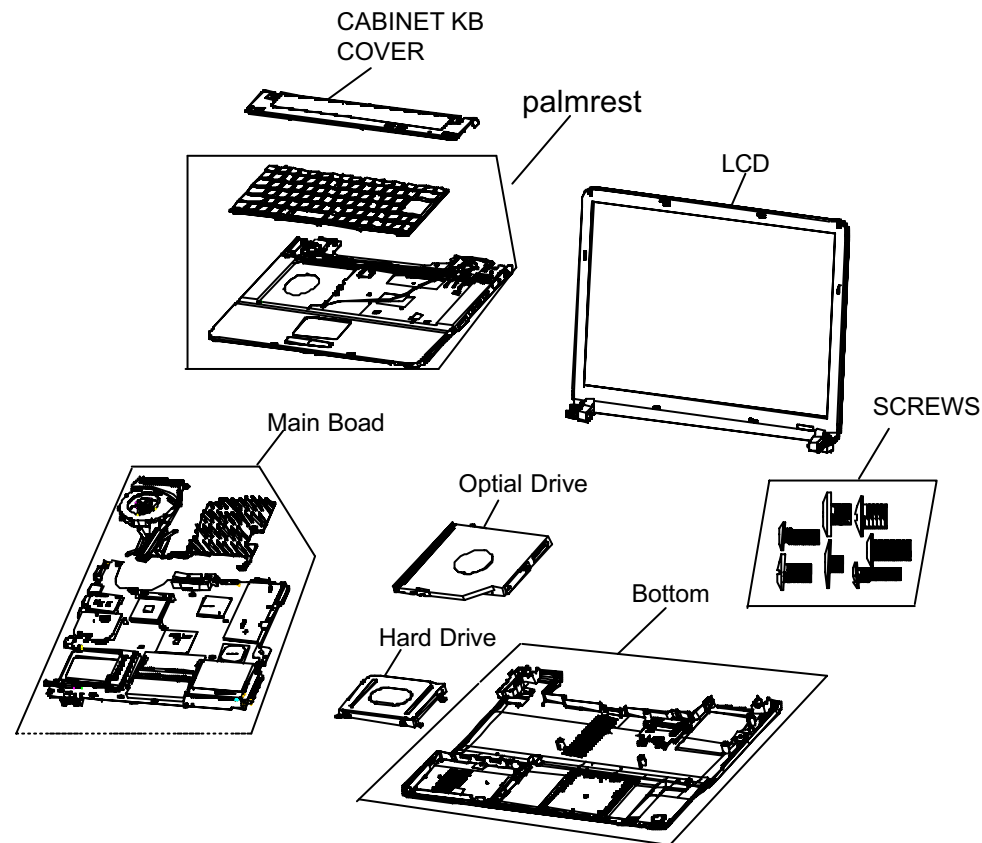
T-1.SUBSTITUTION PARTS LIST.....4-18

**DIP Switch**.....4-19

#### NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked "&" are the "Customer Replacable Parts(CRP)" that can be replaced by Filed Customer Support. Especially the parts with the <&> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replacable Parts(CRP), or the non-targetted parts by referring to the exploded view.

The components identified by mark  or dotted line with mark  are critical for safely.

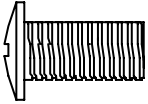








Screws are supplied with a whole set.

# S-1. SCREWS

S-1

B0

B1	B2	B3	B4	B5	B6	B7
						
M3*6	M2*1.6	M2*7	M2*5	M3*3.5	M2*2	M2*3
Black	Black	Black	Silver	Silver	Silver	Black

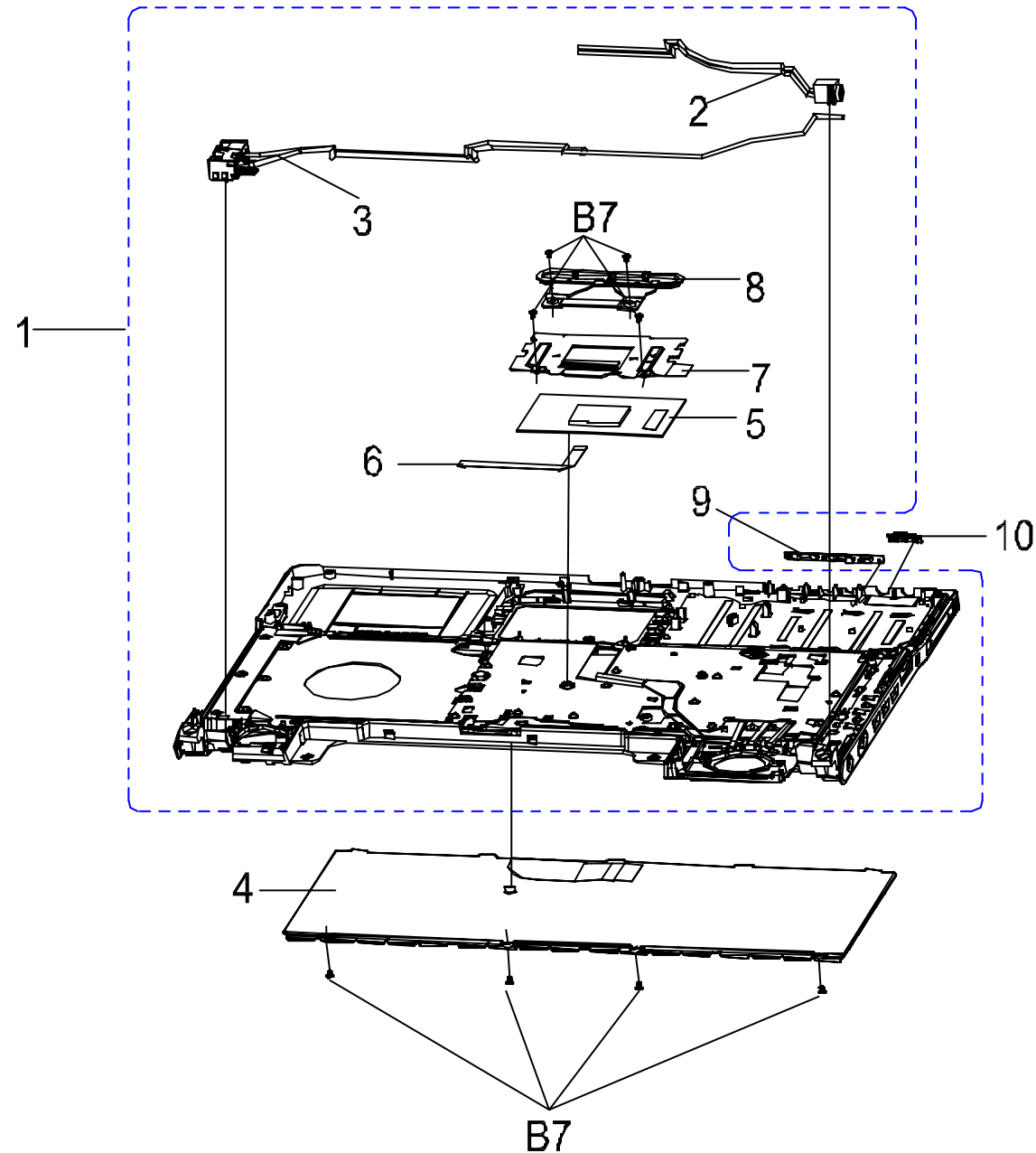
Ref.No.	Part No	Description
B0	A-1091-349-A	& SCREW ASSY
B1		SCREW M3 M3 6mm Black
B2		APPEARANCE SCREW M2 M2 1.6mm Black
B3		SCREW (M2), EXTERIOR VIEW M2 7mm Black
B4		GRIP, M2 M2 5mm Silver
B5		SCREW SPECIAL HEAD M3 3.5mm Silver
B6		SCREW (M2X4), SPECIAL HEAD M2 2mm Silver
B7		GRIP, M2 M2 3mm Black

Note: Screws are supplied with B0, a whole set.

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# P-1. Palmrest

P-1



# P-1. Palmrest

**P-1**

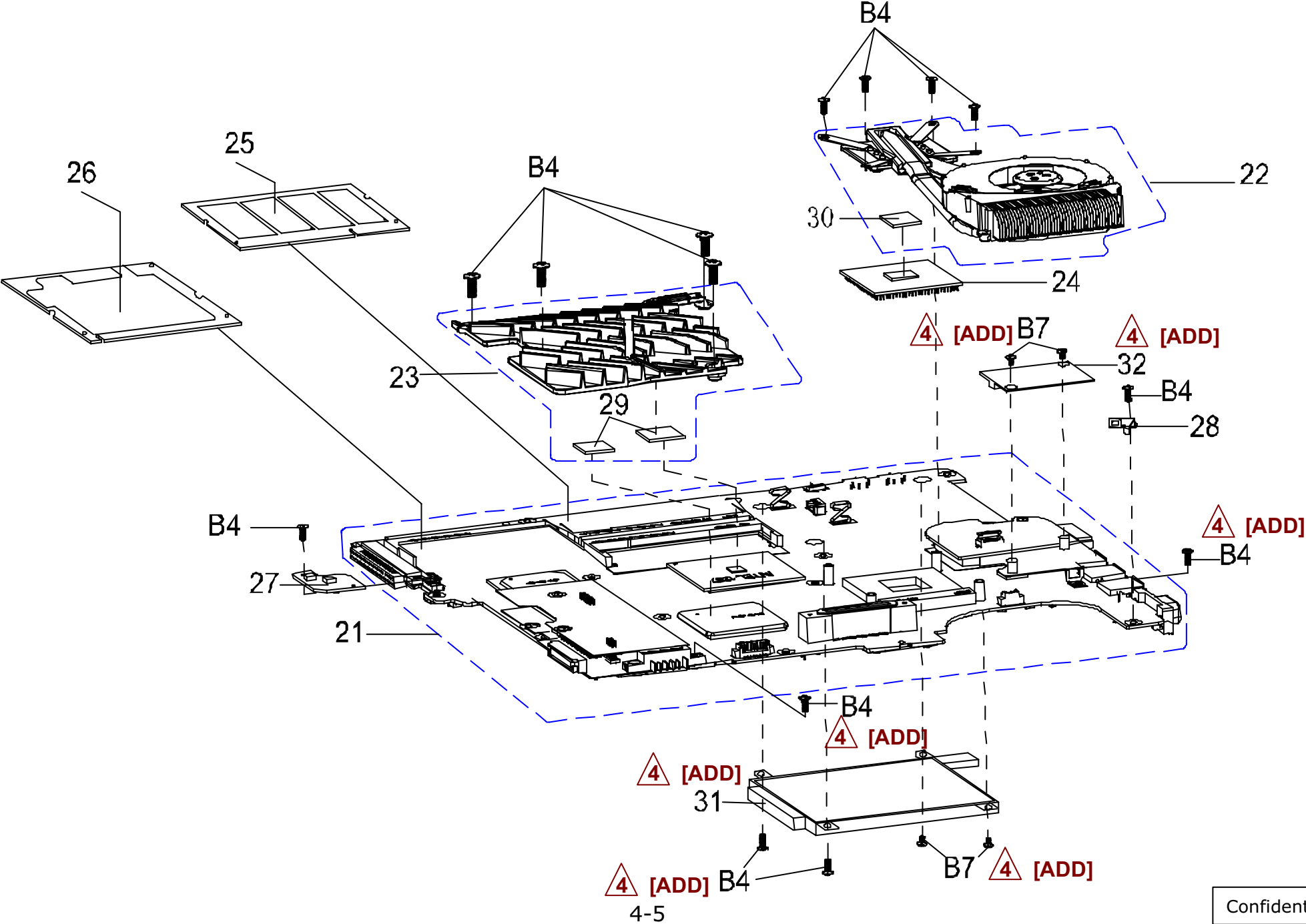
Ref.No.	Part No.	Description
1	A-1108-885-A	MS01 ASSY CABINET PALMREST
2	1-963-519-11	MS01 CABLE DC IN
3	1-963-520-11	MS01 CABLE RJ COMBO
5	1-796-911-21	TOUCHPAD
6	1-830-442-11	MS01 TOUCHPAD FFC
7	X-2048-471-1	MS01 SUBASSY TOUCHPAD BRACKET
8	2-582-765-01	MS01 TOUCHPAD BUTTON
B7		GRIP, M2 M2 3mm Black

\* :CTO Model

			J						AM								EU							AO														
Ref.No.	Part No.	Description	FS70B	FS50B	FS30B	FS20	FS90PS*	FS90S*	FS570	FS550	FS550P	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP	FS15TP	
4	1-479-153-11	KEYBOARD UNIT (JP)	●	●	●	●	●	●																														
	1-479-153-21	KEYBOARD UNIT (US)							●	●	●	●	●	●		●	●	●											●	●	●				●			
	1-479-153-31	KEYBOARD UNIT (KR)																														●				●		
	1-479-153-41	KEYBOARD UNIT (TH)																													●			●				
	1-479-153-51	KEYBOARD UNIT (TW)																														●				●		
	1-479-153-61	KEYBOARD UNIT (RU)																								●	●											
	1-479-154-11	KEYBOARD UNIT (GB)																		●	●	●	●	●	●													
	1-479-154-21	KEYBOARD UNIT (DE)																			●	●	●	●	●	●												
	1-479-154-31	KEYBOARD UNIT (CH)																			●	●		●		●	●											
	1-479-154-41	KEYBOARD UNIT (FR)																			●	●	●	●	●	●												
	1-479-154-51	KEYBOARD UNIT (IT)																			●	●	●		●	●												
	1-479-154-61	KEYBOARD UNIT (LA)														●					●		●															
	1-479-154-71	KEYBOARD UNIT (ES)																							●	●												
	1-479-154-81	KEYBOARD UNIT (SE)																			●		●															
	1-479-154-91	KEYBOARD UNIT (PT)																			●		●															
9	2-546-282-01	MS01 PALMREST LENS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	2-546-282-11	MS01 PALMREST LENS W/O PRINTING														●	●	●																				
10	2-546-281-01	MS01 WLAN BUTTON	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	2-546-283-01	MS01 PRETENDED WLAN BUTTON														●	●	●																				

# M-1. Main Board

M-1






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M-1. Main Board

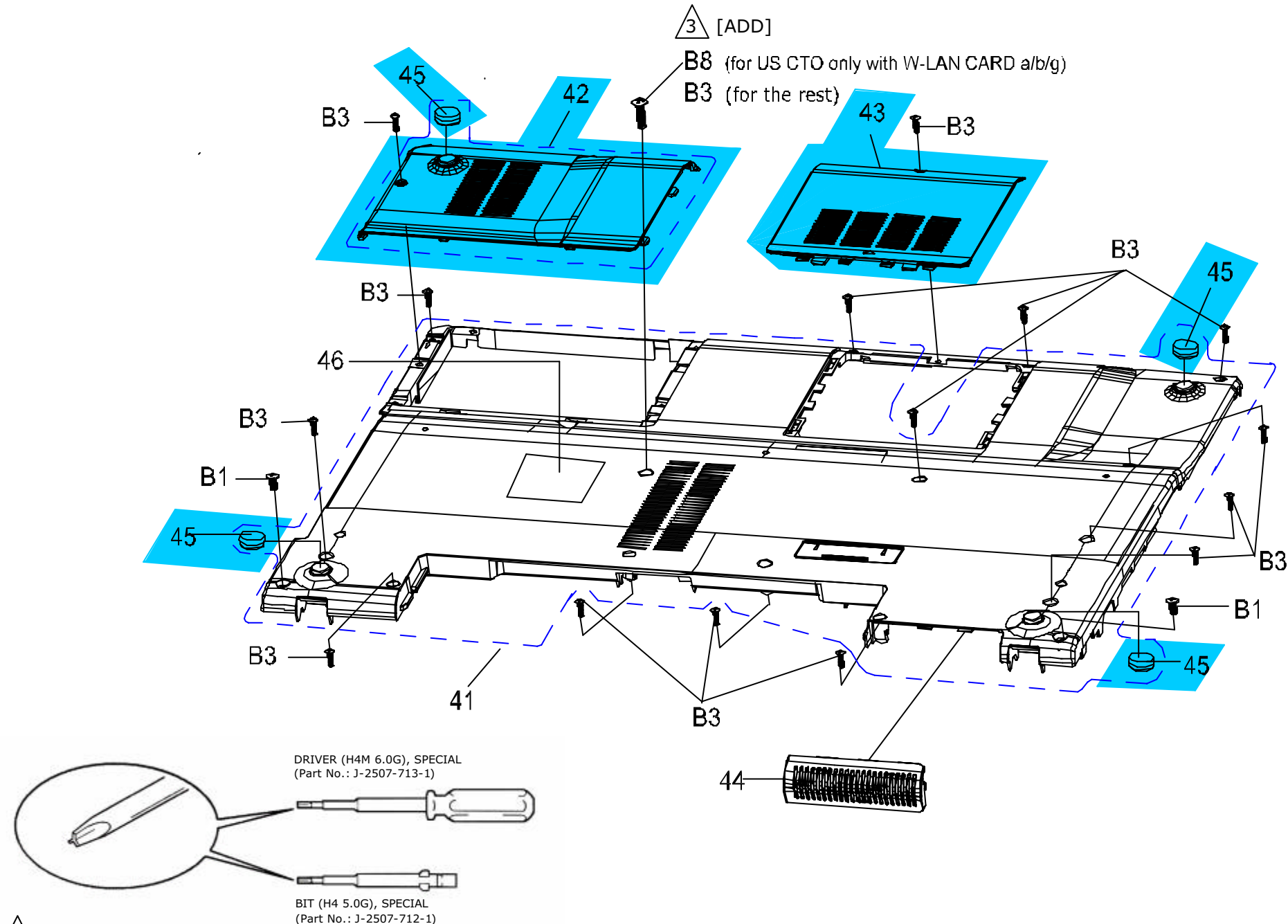
M-1

Ref.No.	Part No.	Description
22	A-1093-218-A	MS01 ASSY THERMAL
23	A-1093-219-A	MS01 ASSY THERMAL VGA
27	A-1095-424-A	MS01 PWA ANTENNA
28	2-546-280-01	MS01 DC IN BRACKET
29	2-592-555-01	THERMAL SHEET VGA
30	2-592-554-01	THERMAL SHEET
 [ADD]	31	1-819-779-11 PCMCIA SOCKET
 [ADD]	32	1-417-539-12 MDC MODULE
	B4	GRIP, M2 M2 5mm Silver
 [ADD]	B7	GRIP, M2 M2 3mm Black

\* : CTO Model

				J						AM								EU						AO															
	Ref.No.	Part No.	Description	FS70B	FS50B	FS30B	FS20	FS90PS*	FS90S*	FS570	FS550	FS550P	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP	FS15TP	
	21	A-1108-887-A	MS01 PWA ALL (FOR HIGH)(NV44M)	•				•	•								•	•	•	•	•	•	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•
		A-1108-888-A	MS01 PWA ALL (FOR LOW)(915GM)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•		•												
⚠️ [ADD]	24	A-1094-802-A	CPU PM2.13					•	•								•	•	•																				
		6-707-261-01	CPU PM2.13					•	•								•	•	•																				
		A-1094-803-A	CPU PM2.0															•	•	•																			
		6-707-260-01	CPU PM2.0															•	•	•																			
		A-1094-804-A	CPU PM1.86															•	•	•										•									
		6-707-259-01	CPU PM1.86															•	•	•										•									
		A-1094-805-A	CPU PM 1.73	•				•	•	•								•	•	•	•	•	•									•		•	•	•			
		6-707-258-01	CPU PM 1.73	•				•	•	•	•							•	•	•	•	•	•						•			•	•	•	•				
		A-1094-806-A	CPU PM1.6		•			•	•	•		•	•	•	•	•	•	•	•	•				•		•	•		•							•	•	•	•
		6-707-252-01	CPU PM1.6		•			•	•	•		•	•	•	•	•	•	•	•	•				•		•	•		•							•	•	•	•
		A-1094-808-A	CPU CEL-M1.4			•	•	•	•									•	•	•	•				•														
		6-707-263-01	CPU CEL-M1.4			•	•	•	•									•	•	•					•														
	25	6-705-096-01	RAM Infineon 512 MB					•	•	•		•	•				•	•	•	•					•				•		•	•	•	•					
		6-707-029-01	RAM Infineon 256 MB	•	•	•	•	•	•		•	•			•	•	•	•	•	•		•	•	•	•		•	•	•		•				•	•	•	•	
⚠️ [DEL]	26	1-761-864-15	WIRELESS LAN CARD (B/G)							•	•	•	•	•	•	•	•	•	•										🔌	🔌									
		1-761-864-25	WIRELESS LAN CARD (B/G)	•	•	•	•	•	•																														
		1-761-864-34	WIRELESS LAN CARD (B/G)																		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		1-789-095-11	WIRELESS LAN CARD (A/B/G)															•	•	•																			

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

3 [ADD] Note: For B8 removal, a special tool shown above is needed.

# B-1. Bottom

B-1

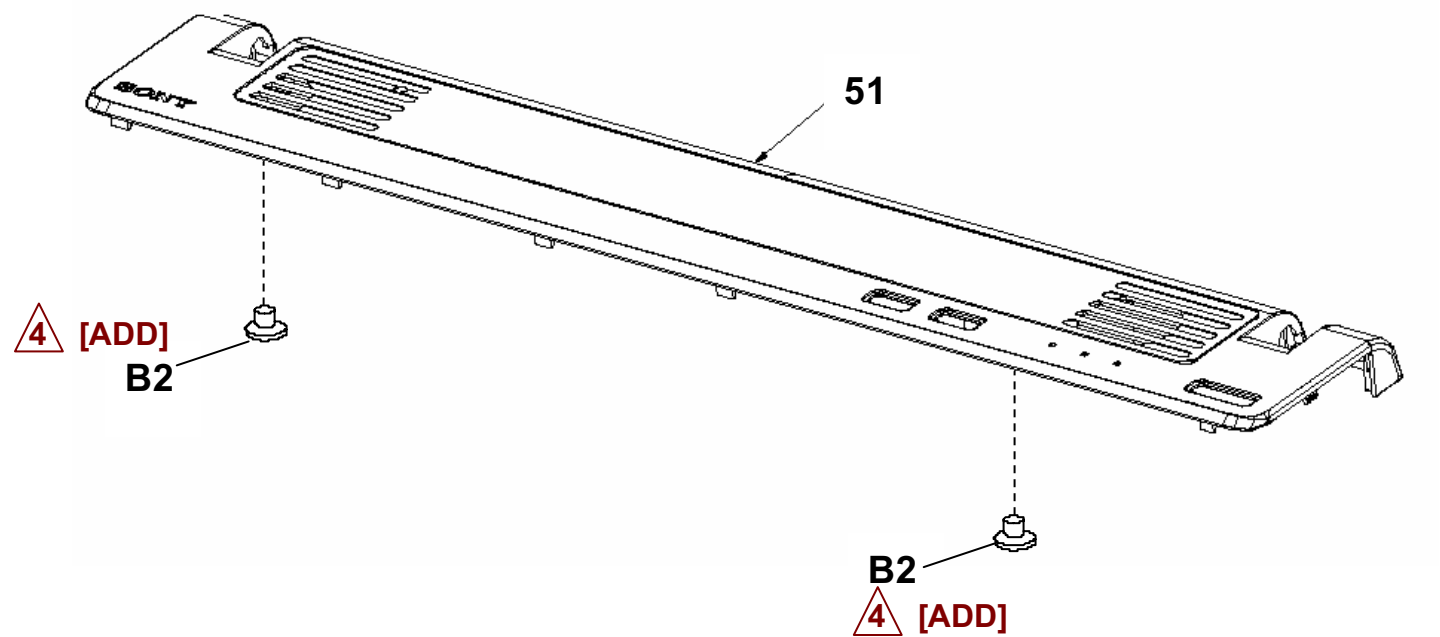
Ref.No.	Part No.	Description
41	X-2050-581-1	MS01 ASSY CABINET BOTTOM
42	X-2050-587-1	& MS01 ASSY HDD DOOR
43	X-2050-582-1	& MS01 ASSY RAM DOOR
44	2-546-276-01	MS01 COVER THERMAL OUTLET
 [CHG] 45	2-546-274-02	& MS01 RUBBER FOOT
B1		SCREW M3 M3 6mm Black
B3		SCREW (M2), EXTERIOR VIEW M2 7mm Black

\* : CTO Model

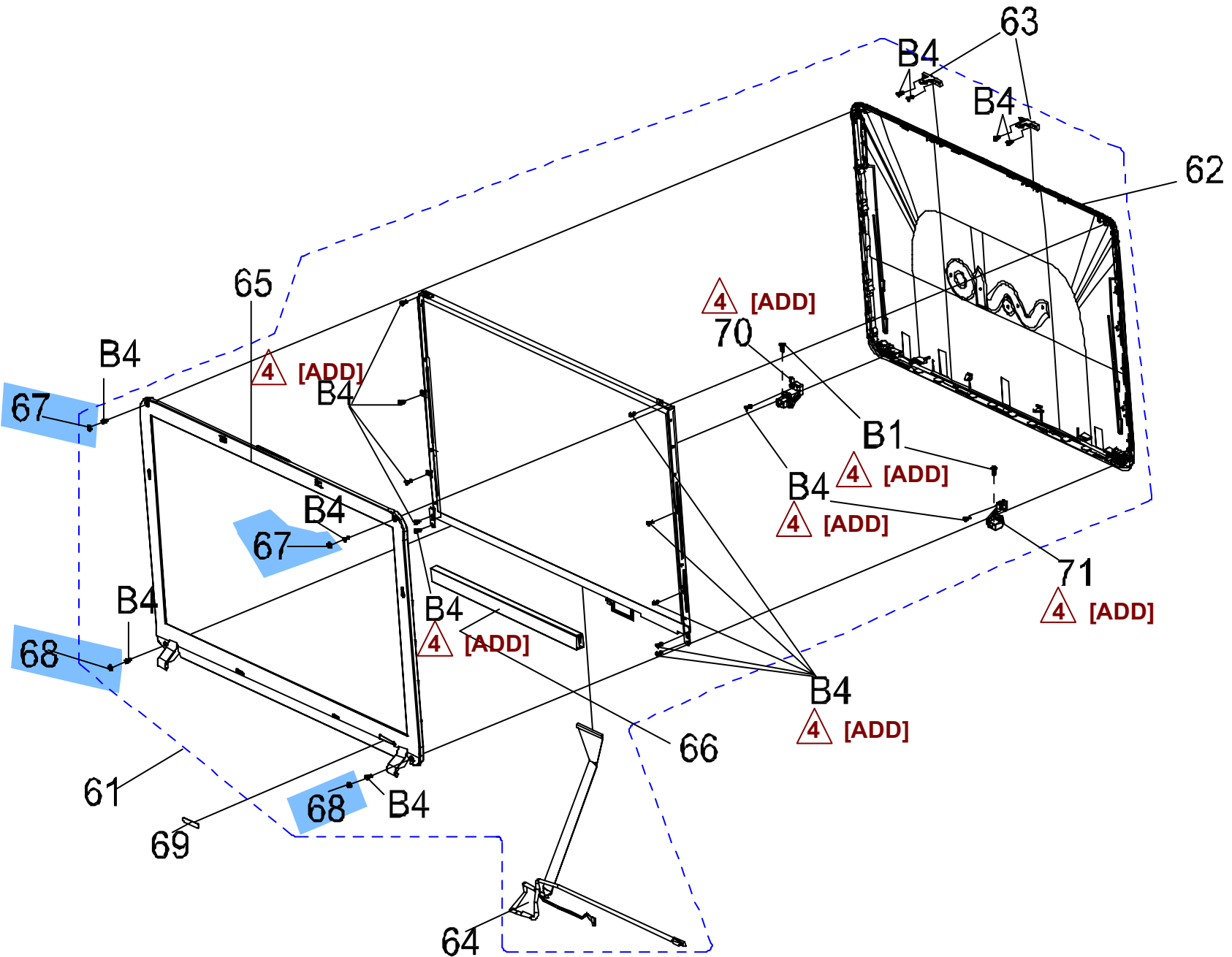
 [DEL]  
 [ADD]

			J						AM							EU							AO															
Ref.No.	Part No.	Description	FS70B	FS50B	FS30B	FS20	FS90PS*	FS90*	FS570	FS550P	FS550	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP	FS15TP	
46	2-587-200-01	LABEL,MODEL NUMBER(J)	●	●	●	●	■	■																														
	2-587-204-01	LABEL,MODEL NUMBER(JCTO)					●	●																														
	2-587-201-01	LABEL,MODEL NUMBER(U)							●	●	●	●	●	●		●	●																					
	2-586-102-01	LABEL,MODEL NUMBER(UCTO)															●																					
	2-586-102-11	LABEL,MODEL NUMBER(UCTO)														●																						
	2-590-071-01	LABEL,MODEL NUMBER(UCTO)																●																				
	2-587-203-01	LABEL,MODEL NUMBER(LA)													●																							
	2-587-202-01	LABEL,MODEL NUMBER(E)																	●	●	●	●	●	●	●	●	●											
	2-587-205-01	LABEL,MODEL NUMBER(C )(CAW)																										●										
	2-587-205-11	LABEL,MODEL NUMBER(C )(CBX)																											●									
	2-587-206-01	LABEL,MODEL NUMBER(IAWEHK)																												●								
	2-587-206-11	LABEL,MODEL NUMBER(IBWEHK)																																●				
	2-587-207-01	LABEL,MODEL NUMBER(IAWETH)																													●							
	2-587-207-11	LABEL,MODEL NUMBER(IBWETH)																																	●			
	2-587-208-01	LABEL,MODEL NUMBER(IAWW)																														●						
	2-587-208-11	LABEL,MODEL NUMBER(IBWW)																																				●
	2-587-209-01	LABEL,MODEL NUMBER(IAWK)																															●					
	2-587-209-11	LABEL,MODEL NUMBER(IBWK)																																			●	
B8	4-681-432-01	SPECIAL SCREW (M2)(SPIN)														●	●	●																				

 [ADD]






Ref.No.	Part No.	Description
51	X-2048-486-1	MS01 CABINET KBCOVER
<div>4 [ADD]</div> B2		APPEARANCE SCREW M2 M2 1.6mm Black



# L-1.LCD

L-1

Ref.No.	Part No.	Description
62	X-2048-459-1	MS01 SUBASSY LCD HOUSING
63	2-546-200-01	MS01 LCD HOOK
65	X-2050-578-1	MS01 SUBASSY LCD BEZEL
67	2-546-209-01	& MS01 LCD RUBBER ROUND
68	2-587-393-01	& MS01 LCD RUBBER ROUND DOWN
 [ADD] 70	2-546-203-01	MS01 HINGE LEFT
 [ADD] 71	2-546-204-01	MS01 HINGE RIGHT
 [ADD] B1		SCREW M3 M3 6mm Black
B4		GRIP, M2 M2 5mm Silver

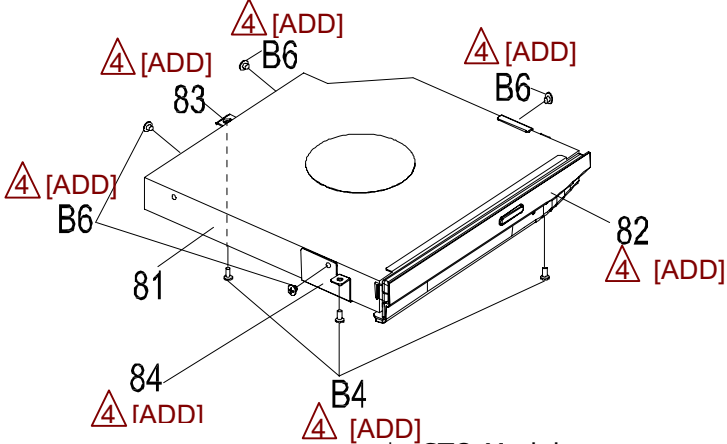
\* : CTO Model

			J						AM								EU							AO														
Ref.No.	Part No.	Description	FS70B	FS50B	FS30B	FS20	FS90PS*	FS90S*	FS570	FS550	FS550P	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP	FS15TP	
61	A-1108-881-A	ASSY LCD (HC-SXGA+-WLAN)(S)	•				•	•																														
	A-1108-883-A	ASSY LCD (HC-WXGA-WLAN )(S)		•	•	•	•	•	•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•	•									
	A-1108-878-A	ASSY LCD (BR-WLAN)(S)										•	•	•	•															•	•	•	•	•	•	•	•	•
64	1-963-756-11	MS01 LCD CABLE	•	•	•	•	•	•	•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•	•									
	1-963-755-11	MS01 LCD CABLE										•	•	•	•															•	•	•	•	•	•	•	•	•
66	1-479-137-12	NEC-TOKIN LCD INVERTER (dual)	•	•	•	•	•	•	•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•	•									
	1-478-805-12	NEC-TOKIN LCD INVERTER (single)										•	•	•	•															•	•	•	•	•	•	•	•	•
69	2-587-211-01	ID LABEL3060 (CDS)(JAX)	•																																			
	2-587-211-11	ID LABEL3060 (CDS)(JBX)		•																																		
	2-587-211-21	ID LABEL3060 (CDS)(JCX)			•																																	
	2-587-211-31	ID LABEL3060 (CDS)(JDX)				•																																
	2-588-021-01	ID LABEL3060 (JCTO)					•																															
	2-588-021-11	ID LABEL3060 (JCTO)						•																														
	2-589-160-11	ID LABEL3060 (CDS)(UBXE)							•																													
	2-589-160-21	ID LABEL3060 (CDS)(UCXE)								•																												
	2-589-160-31	ID LABEL3060 (CDS)(UCWE)									•																											
	2-589-160-41	ID LABEL3060 (CDS)(UDWE)										•																										
	2-589-160-51	ID LABEL3060 (CDS)(UEWE)											•																									
	2-589-160-61	ID LABEL3060 (CDS)(UFWE)												•																								
	2-589-160-81	ID LABEL3060 (CDS)(UHXS)													•																							

\* : CTO Model

Ref.No.	Part No.	Description	J						AM								EU								AO													
			FS70B	FS50B	FS30B	FS20	FS90PS*	FS90S*	FS570	FS550	FS550P	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP	FS15TP	
69	2-586-104-01	ID LABEL3060 (UCTO)														•																						
	2-586-104-11	ID LABEL3060 (UCTO)															•																					
	2-586-104-21	ID LABEL3060 (UCTO)													•																							
	2-589-161-01	ID LABEL3060 (CDS)(EAW)																•																				
	2-589-161-11	ID LABEL3060 (CDS)(EBX)																	•																			
	2-589-161-21	ID LABEL3060 (CDS)(ECX)																		•																		
	2-589-161-31	ID LABEL3060 (CDS)(EDX)																			•																	
	2-589-161-41	ID LABEL3060 (CDS)(EEX)																				•																
	2-589-161-51	ID LABEL3060 (CDS)(EFW)																					•															
	2-589-161-61	ID LABEL3060 (CDS)(EGX)																						•														
	2-589-161-71	ID LABEL3060 (CDS)(EHXRRU)																							•													
	2-589-161-81	ID LABEL3060 (CDS)(EJXRRU)																								•												
	2-588-196-01	ID LABEL3060 (CDS)(CAW)																									•											
	2-588-196-11	ID LABEL3060 (CDS)(CBX)																										•										
	2-588-197-01	ID LABEL3060 (CDS)(IAWEHK)																												•								
	2-588-197-11	ID LABEL3060 (CDS)(IAWETH)																													•							
	2-588-197-21	ID LABEL3060 (CDS)(IAWK)																														•						
	2-588-197-31	ID LABEL3060 (CDS)(IAWW)																															•					
	2-588-197-41	ID LABEL3060 (CDS)(IBWEHK)																																•				
	2-588-197-51	ID LABEL3060 (CDS)(IBWETH)																																	•			
	2-588-197-61	ID LABEL3060 (CDS)(IBWK)																																		•		
	2-588-197-71	ID LABEL3060 (CDS)(IBWW)																																			•	

Ref.No.	Part No.	Description
<div>4 [ADD]</div> 83	2-546-291-01	MS01 ODD BRACKET BACK
<div>4 [ADD]</div> 84	2-546-292-01	MS01 ODD BRACKET FRONT
B4		GRIP, M2 M2 5mm Silver
B6		SCREW (M2X4), SPECIAL HEAD M2 2mm Silver



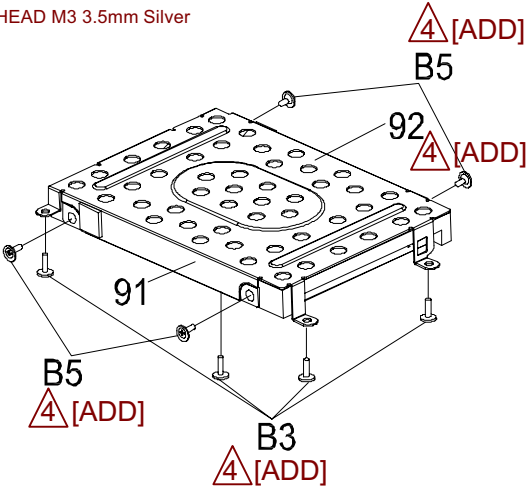
\*: CTO Model

	Ref.No.	Part No.	Description	J						AM								EU							AO												
				FS70B	FS50B	FS30B	FS20	FS90PS*	FS90S*	FS570	FS550	FS550P	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP
1 [ADD]	81	A-1108-893-A	MS01 ASSY ODD PANA(SM+DL)	•	•	•		•	•																												
		A-1108-895-A	MS01 ASSY ODD PANA(SM+SL)				•	•	•																												
		A-1108-896-A	MS01 ASSY ODD PANA(DVD+DL)							•	•			•	•	•	•	•	•	•	•	•	•	•	•	•											
		A-1108-897-A	MS01 ASSY ODD QSI (SBW 242C)					•	•				•	•		•	•	•	•									•	•				•	•	•	•	
		A-1108-898-A	MS01 ASSY ODD QSI (SDR-088)													•	•	•																			
4 [ADD]	82	X-2048-479-1	SUBASSY ODD BEZEL PANA	•	•	•		•	•																												
		X-2048-480-1	SUBASSY MULTI BEZEL(HI)	•	•	•		•	•																												
		X-2050-540-1	SUBASSY ODD BEZEL PANA				•	•	•																												
		X-2048-481-1	SUBASSY ODD BEZEL PANA							•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•				
		X-2048-482-1	SUBASSY ODD BEZEL SONY							•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•			•	•						
		X-2048-577-1	SUBASSY ODD BEZEL QSI					•	•				•	•		•	•	•										•	•				•	•	•	•	
		X-2050-541-1	SUBASSY ODD BEZEL QSI													•	•	•																			



H-1.HDD

Ref.No.	Part No.	Description
<div><div>4</div>[ADD]</div> 92	A-1092-487-A	MS01 SUBASSY HDD BRACKET
<div><div>4</div>[ADD]</div> B3		SCREW (M2), EXTERIOR VIEW M2 7mm Black
<div><div>4</div>[ADD]</div> B5		SCREW SPECIAL HEAD M3 3.5mm Silver



\*: CTO Model

			J					AM								EU						AO																
Ref.No.	Part No.	Description	FS70B	FS50B	FS30B	FS20	FS90PS*	FS90S*	FS570	FS550	FS550P	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP	FS15TP	
91	A-1108-901-A	MS01 ASSY HDD 100GB(FJ)							•										•	•						•												
	A-1108-902-A	MS01 ASSY HDD 100GB(TO)					•	•																														
	A-1108-903-A	MS01 ASSY HDD 80GB(HI)	•				•	•		•	•	•									•	•				•				•	•	•	•					
	A-1108-904-A	MS01 ASSY HDD 80G(FJ)		•																																		
	A-1108-905-A	MS01 ASSY HDD 80G(TO)			•	•																		•														
	A-1108-906-A	MS01 ASSY HDD 60GB(HI)					•	•					•		•	•	•	•					•		•			•										
	A-1108-909-A	MS01 ASSY HDD 40G(TO)					•	•																										•	•	•	•	
	A-1108-910-A	MS01 ASSY HDD 40GB(HI)												•		•	•	•											•									
	A-1108-911-A	MS01 ASSY HDD 30GB(HI)															•	•	•																			

# A-1. ACCESSORIES

A-1

△ [CHG]

2001  
Memory Card  
Adapter



△ [CHG]

2002  
Cord Connection



△ [CHG]

2003  
Wireless  
Receiver



△ [CHG]

2004  
Floppy  
Disk  
Drive



△ [CHG]

2005  
Power Cord



△ [CHG]

2006  
AC Adapter



△ [CHG]

2007  
Battery Pack



△ [CHG]

2008  
Mouse



The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

# A-1. ACCESSORIES

A-1

\* : CTO Model

	Ref.No.	Part No.	Description	J						AM								EU							AO												
				FS70B	FS50B	FS30B	FS20	FS90PS*	FS90S*	FS70	FS550	FS550P	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP
⚠ [CHG]	2001	1-478-615-11	&	MEMORY CARD ADAPTER	•	•	•	•	•	•																											
⚠ [CHG]	2002	1-828-502-41	&	CORD, CONNECTION(USB 5P)					•	•																											
⚠ [CHG]	2003	1-417-440-11	&	WIRELESS RECEIVER					•	•																											
⚠ [CHG]	2004	1-476-818-21	&	FDD VGP-UFD1		•	•	•	•																												
⚠ [CHG]	⚠ 2005	1-827-160-21	&	POWER CORD FOR JP	•	•	•	•	•	•																											
		1-829-237-21	&	POWER CORD FOR US							•	•	•	•	•	•	•	•																			
		1-823-935-51	&	POWER CORD FOR E(GB)															•	•	•	•	•	•	•												
		1-827-481-21	&	POWER CORD FOR E(NON GB)															•	•	•	•	•	•	•												
		1-830-375-11	&	POWER CORD FOR E(RU)																						•	•										
		1-823-947-32	&	POWER CORD FOR I(KOREA)																												•			•		
		1-829-237-21	&	POWER CORD FOR I(TAIWAN)																													•			•	
		1-827-481-21	&	POWER CORD FOR I(THAILAND)																														•			
⚠ [CHG]	⚠ 2006	1-479-116-11	&	ADAPTER AC19V11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•													
		1-479-114-11	&	ADAPTER AC19V10																							•	•	•	•	•	•	•	•	•	•	•
		1-479-231-11	&	ADAPTER AC19V12																						•	•										
⚠ [CHG]	⚠ 2007	A-1114-325-A	&	BATTERY 9139 ASSY MAIN BP FOR JP	•	•	•	•	•	•																											
		A-1114-326-A	&	BATTERY 9139 ASSY MAIN BP FOR US						•	•	•	•	•	•		•	•	•																		
		1-756-531-22	&	BATTERY PACK, LITHIUMION for EU/AP											•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
⚠ [CHG]	2008	1-796-824-41	&	MOUSE					•	•																											
⚠ [CHG]	2009	1-770-019-51	&	ADAPTOR, CONVERSION PLUG																																	
⚠ [ADD]	-	2-585-822-01	&	MANUAL, INSTRUCTION	•	•	•	•	•	•																											
	-	2-586-755-01		WELCOME MAT 3060 (EN/SP) (CDS)							•	•	•	•	•	•	•																				
	-	2-584-781-11		HW SPECS, 3060 (E) A-1(GB)														•	•				•														
		2-584-781-21		HW SPECS, 3060 (E) A-1(DE)															•	•				•													
		2-584-781-31		HW SPECS, 3060 (E) A-1(FR)															•	•				•													
		2-584-781-41		HW SPECS, 3060 (E) A-1(IT)															•	•				•													
		2-584-781-61		HW SPECS, 3060 (E) A-1(NL)																•				•													

# A-1. ACCESSORIES

A-1

\* : CTO Model

			J						AM							EU							AO																
Ref.No.	Part No.	Description	FS70B	FS50B	FS30B	FS20	FS90PS*	FS90S*	FS570	FS550	FS550P	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP	FS15TP		
-	2-584-781-51	HW SPECS, 3060 (E) A-1(ES)																		•				•															
	2-584-781-71	HW SPECS, 3060 (E) A-1(SE)																						•															
	2-584-781-81	HW SPECS, 3060 (E) A-1(SE)																						•															
	2-584-781-91	HW SPECS, 3060 (E) A-1(PT)																			•																		
	2-584-784-11	HW SPECS, 3060 (E) A-2(AGR)																			•																		
	2-584-785-11	HW SPECS, 3060 (E) B(GB)																				•	•		•														
	2-584-785-21	HW SPECS, 3060 (E) B(DE)																				•	•		•														
	2-584-785-31	HW SPECS, 3060 (E) B(FR)																				•	•		•														
	2-584-785-41	HW SPECS, 3060 (E) B(IT)																				•	•		•														
	2-584-785-51	HW SPECS, 3060 (E) B(ES)																					•		•														
	2-584-785-61	HW SPECS, 3060 (E) B(NL)																					•		•														
	2-584-785-71	HW SPECS, 3060 (E) B(PT)																					•			•													
	2-584-785-81	HW SPECS, 3060 (E) B(AGR)																					•																
	2-584-786-11	HW SPECS, 3060 (E) C																									•	•											
-	2-585-320-31	TROUBLESHOOTING GUIDE ©																										•	•										
	2-585-319-11	TROUBLESHOOTING GUIDE (D)																											•	•				•	•				
	2-585-319-21	TROUBLESHOOTING GUIDE (D)																													•						•		
	2-585-319-41	TROUBLESHOOTING GUIDE (D)																														•						•	
-	2-585-321-31	SPEC SHEET (3060G)																										•	•										
	2-585-321-11	SPEC SHEET (3060G)																												•	•				•	•			
	2-585-321-21	SPEC SHEET (3060G)																														•					•		
	2-585-321-41	SPEC SHEET (3060G)																														•						•	
-	2-586-077-11	SAFETY/REGULATIONS GUIDE 1																										•	•										
	2-586-077-01	SAFETY/REGULATIONS GUIDE 1																												•	•	•	•	•	•	•	•	•	•
-	2-318-620-02	CURTE VAIO	•	•	•	•	•	•																															

# T-1. SUBSTITUTION PARTS LIST

A-1

NOTE:

Please order below substitution parts if the parts with the same Ref. No. in page 4-2 to 4-17 are not available.

\* : CTO Model

	Ref.No.	Part No.	Description	J						AM								EU								AO												
				FS70B	FS50B	FS30B	FS20	FS90PS*	FS90S*	FS570	FS550	FS550P	FS540P	FS530B	FS520B	FS550F	FS500*	FS500P*	FS500B*	FS195XP	FS115Z	FS115S	FS115M	FS115E	FS195VP	FS115B	FS115ZR	FS115MR	FS18CP	FS15C	FS18GP	FS18SP	FS18LP	FS18TP	FS15GP	FS15SP	FS15LP	FS15TP
2[ADD] 1[ADD]	25	6-707-508-01	RAM Micron 512 MB					•	•	•					•	•	•	•	•					•							•	•						
		6-707-611-01	RAM Hynix 256 MB	•	•	•	•	•	•		•	•		•	•	•	•	•	•		•	•	•	•		•							•	•				
		6-707-648-01	RAM Hynix 512 MB					•	•			•	•			•	•	•	•					•			•											
	66	1-478-805-31	NEC-TOKIN LCD INVERTER (single)									•	•	•															•	•	•	•	•	•	•	•	•	
	81	A-1108-894-A	MS01 ASSY ODD HITACHI DW	•	•	•		•	•																					•	•							
		A-1108-892-A	MS01 ASSY ODD SONY(DVD+DL)							•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•				•	•						
		A-1117-427-A	MS01 ASSY ODD SONY(DVD+DL)							•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•				•	•						
	91	A-1108-901-A	MS01 ASSY HDD 100GB(FJ)					•	•							•	•	•																				
		A-1108-902-A	MS01 ASSY HDD 100GB(TO)							•									•	•							•											
		A-1108-903-A	MS01 ASSY HDD 80GB(HI)		•	•	•																	•														
A-1108-904-A		MS01 ASSY HDD 80G(FJ)	•		•	•	•	•		•	•	•			•	•	•	•			•	•					•			•	•							
A-1108-905-A		MS01 ASSY HDD 80G(TO)	•	•			•	•		•	•	•			•	•	•	•			•	•				•			•	•								
A-1108-907-A		MS01 ASSY HDD 60G(FJ)					•	•				•		•	•	•	•					•		•														
A-1108-908-A		MS01 ASSY HDD 60G(TO)					•	•				•		•	•	•	•					•		•														
A-1108-909-A		MS01 ASSY HDD 40G(TO)											•		•	•	•																					
A-1108-910-A		MS01 ASSY HDD 40GB(HI)					•	•																										•	•			
2[ADD] 3[CHG] 2[ADD]	2006	1-479-116-12 &	ADAPTER AC19V11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•													
		1-479-114-21 &	ADAPTER AC19V10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•													
		1-479-114-22 &	ADAPTER AC19V10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•		

# DIP Switch

The DIP switch setting is following table.

J	VGN-FS70B	VGN-FS50B	VGN-FS30B	VGN-FS20	VGN-FS90PS*/FS90S*	
AM	VGN-FS570	VGN-FS550	VGN-FS550P	VGN-FS540P	VGN-FS530B	
	VGN-FS520B	VGN-FS500*/FS500P*/FS500B*		VGN-FS550F		
EU	VGN-FS195XP	VGN-FS115Z	VGN-FS115S	VGN-FS115M	VGN-FS115E	
	VGN-FS195VP	VGN-FS115B	VGN-FS115ZR	VGN-FS115MR		
AO	VGN-FS18CP	VGN-FS15C	VGN-FS18GP	VGN-FS18SP	VGN-FS18LP	
	VGN-FS18TP	VGN-FS15GP	VGN-FS15SP	VGN-FS15LP	VGN-FS15TP	

15.4inch WXGA(BR)



15.4inch WXGA(HC)



15.4inch WSXGA+(HC)



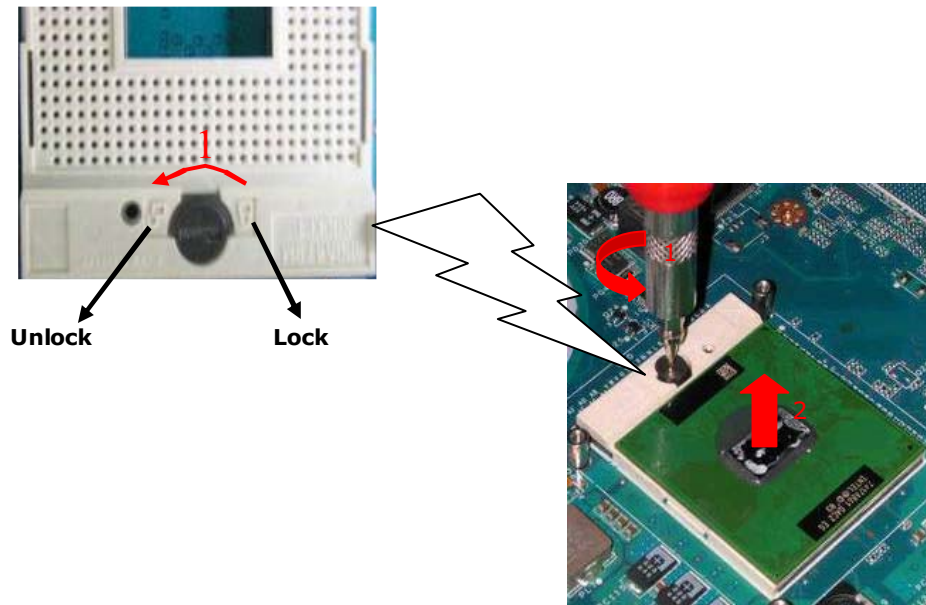
The DIP switch setting is different depending the types of LCD.  
Set the DIP switch of CTO model in accordance with the [FOR CTO MODEL].

## CHAPTER 5. OTHERS

### 5-1.Replacing the CPU

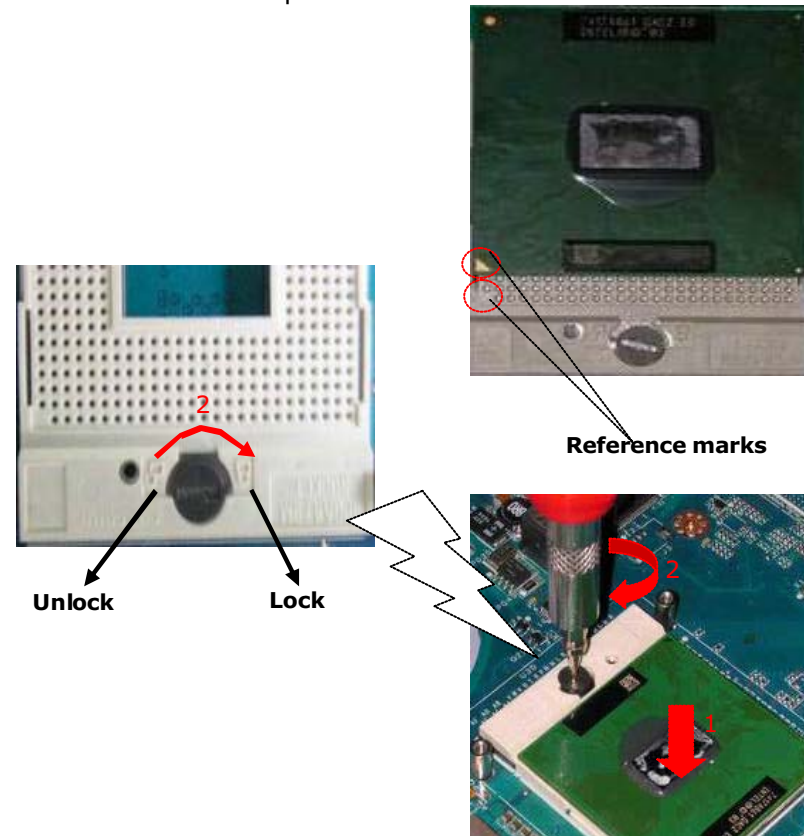
#### 1. Removing the CPU

1. Insert a flat-blade screwdriver into the notch as shown illustration and rotate it so that the protrusion comes to the lock release position.
2. Pull the CPU gently upward to lift it out of the CPU socket



#### 2. Installing the CPU

1. Align the triangle reference mark of the mark the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
2. Insert the flat head (-) screwdriver into the specified position and rotate the screwdriver to the LOCK position.



## 5-2. Wiring the W-LAN Cable

\* The MS01 PWA ANTENNA is installed also in the models without Wireless LAN.  
Refer to the instruction below to see how to wire the CABLE.



Using KAPTION TAPE to secure the Cable.





VGN-FS70B/FS50B/FS30B/FS20/FS90PS/FS90S (J)  
VGN-FS570/FS550/FS550P/FS540P/FS530B/FS520B/FS500/FS500P/FS500B/FS550F (AM)  
VGN-FS195XP/FS115Z/FS115S/FS115M/FS115E/FS195VP/FS115B/FS115ZR/FS115MR (EU)  
VGN-FS18CP/FS15C/FS18GP/FS18SP/FS18LP/FS18TP/FS15GP/FS15SP/FS15LP/FS15TP (AO)





**List of VGN-F Series (As of June, 2005 )**

Service Manual	Model Name							
Part No.	J	AM			EU		AO	
9-876-414-XX	VGN-FS70B	VGN-FS570	VGN-FS520B		VGN-FS195XP	VGN-FS195VP	VGN-FS18CP	VGN-FS18TP
	VGN-FS50B	VGN-FS550	VGN-FS500	*	VGN-FS115Z	VGN-FS115B	VGN-FS15C	VGN-FS15GP
	VGN-FS30B	VGN-FS550P	VGN-FS500P	*	VGN-FS115S	VGN-FS115ZR	VGN-FS18GP	VGN-FS15SP
	VGN-FS20	VGN-FS540P	VGN-FS500B	*	VGN-FS115M	VGN-FS115MR	VGN-FS18SP	VGN-FS15LP
	VGN-FS90PS	*	VGN-FS530B	VGN-FS550F	VGN-FS115E		VGN-FS18LP	VGN-FS15TP
	VGN-FS90S	*						

**\*: CTO Model**

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# Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver.1	2005.02.17	First Edition	
-02	Ver.2	2005.03.14	 <b>Page1-3,page1-4,Page 4-8 ,page4-13, Page 4-18</b>	N2004_169CK
-03	Ver.3	2005.03.23	 <b>Page4-18</b>	N2004_169CK
-04	Ver.4	2005.05.16	 <b>Page4-7,Page4-8,Page4-15,Page4-16 Page4-18</b>	N2005_010CK
-05	Ver.5	2005.09.28	 <b>Page4-5,Page4-6,Page4-8,Page4-9, Page4-10,Page4-11,Page4-13, Page4-14</b>	N2005_028CK
<Remarks>				